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1. 9.03.01.77-R: A Verifier for Multicore C11 or C++11 Code

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

The 2011 ISO/IEC standards for C [1] (C11) and C++ [2] (C++11) introduced a portable, relaxed multithreaded memory model. Instead of guaranteeing sequential consistency [3] for all legal (data-race-free) programs, these standards allow each atomic shared memory operation to specify the degree of memory consistency it requires. The compiler has to add only the synchronization needed to achieve the ...

SBIR Department of Commerce

2. H-SB015.1-005: A Wearable Communications Hub Designed to Streamline and Improve First Responder Communication Capabilities

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop a high-level, scalable next-generation architecture and prototype for an intelligent communications interface device (also referred to as a communications hub) that serves to interconnect wearable technologies (e.g., video camera, sensors, heads-up displays) and voice communication tools to an array of radio communication devices carried by a first responder. DESCRIPTION: Toda ...

SBIR Department of Homeland Security

3. N152-087: Ability for Electronic Kneeboard (EKB) to Communicate and Operate in a Multi- level Security Environment

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The Electronic Kneeboard (EKB) is currently being developed to enable access to digital publications, tactical imagery, and other dynamic data in all USN and USMC aircraft. This capability will greatly enhance aircrew situational awareness, reduce cockpit clutter, improve precision fire, and enable in-flight mission re-planning. The warfighter would greatly benefit from a mobile platform capable o ...

SBIR NavyDepartment of Defense

4. H7.01: Ablative Thermal Protection Systems Technologies, Sensors and NDE Methods

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:ARCParticipating Center(s):JSC,LaRC,GRC,JPLThe technologies described below support the goal of developing advancements in instrumentation systems, inspection techniques, and analytical modeling for the higher performance Ablative Thermal Protection Systems (TPS) materials currently in development for future Exploration missions. The ablative TPS materials currently in development incl ...

SBIR National Aeronautics and Space Administration

5. N152-108: Accelerating Instructor Mastery (AIM)

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Educators typically study for four years at a university building a solid foundation of instructional knowledge. In addition, most educators also have observed practical experience before they instruct on their own. In contrast, active duty military instructors often don’t have the benefit of any education on how to instruct. They are often recently graduated students; although their content kno ...

SBIR NavyDepartment of Defense

6. 9.03.02.77-R: Access Control Policy Tool

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Nearly all applications that deal with financial, privacy, safety, or defense include some form of access control. Access control is concerned with determining the allowed activities of legitimate users, mediating every attempt by a user to access a resource in the system. Access control policies are high-level requirements that specify how access is managed and who may access information under wh ...

SBIR Department of Commerce

7. 8.4.3D: Accurate Nightlight for Satellite Calibration for Weather and Climate Applications

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: The excellent on-orbit performance of the Suomi NPP VIIRS Day Night Band (DNB) ushers in a new era of low light imaging at night. Its extreme sensitivity to low lights has already been demonstrated in numerous emerging applications, e.g., the rescue of a Bering Sea Fleet crab fishing vessel trapped in ice in the winter of 2013 in Alaska. This unprecedented capability heavily d ...

SBIR Department of Commerce

8. NIH/NHLBI 095: Active MRI Transseptal Needle

Release Date: 07-24-2015Open Date: 07-24-2015Due Date: 10-16-2015Close Date: 10-16-2015

Catheter access to the left atrium is a fundamental step to numerous transcatheter therapies including catheter ablation of rhythm disorders, diagnostic catheterization in pediatric and structural heart disease, and future treatments for mitral valve and left atrial appendage disease.

SBIR Department of Health and Human Services

9. 15.1-FR2: Active Personal Safety System for Train Yard and Road Crewworkers

Release Date: 01-06-2015Open Date: 01-06-2015Due Date: 03-09-2015Close Date: 03-09-2015

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SBIR Department of Transportation

10. N152-115: Active Thermal Control System Optimization

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Thermal Management is a critical requirement for future warships with electronic propulsion, weapon, and sensor systems. Innovative thermal architectures are needed to cool next-generation, high-energy density electronics which are expected to exhibit highly transient loads during pulsed operation. Two-phase cooling systems, such as vapor compression cycles, pumped cooling loops, and hybrid system ...

SBIR NavyDepartment of Defense

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